

<b>Project Title:</b>	Role of pattern recognition receptors in organic dust-induced airway inflammation
<b>PI:</b>	Poole, Jill A
<b>Institution:</b>	University Of Nebraska Medical Center
<b>Grant Number:</b>	R01ES019325

These search results have not been confirmed by NIEHS and are therefore, not official. They are to be used only for general information and to inform the public and grantees on the breadth of research funded by NIEHS.

Viewing 80 publications

Print version (PDF)

([http://www.niehs.nih.gov//portfolio/index.cfm/portfolio/grantpubdetail/grant\\_number/R01ES019325/format/word](http://www.niehs.nih.gov//portfolio/index.cfm/portfolio/grantpubdetail/grant_number/R01ES019325/format/word))

Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed ID
** T cells and a mixed Th1/Th17 response are important in organic dust-induced airway disease.	Poole, Jill A; Gleason, Angela M; Bauer, Christopher; West, William W; Alexis, Neil; Reynolds, Stephen J; Romberger, Debra J; Kielian, Tammy	Ann Allergy Asthma Immunol (2012 Oct)	109 / 266-273.e2	PubMed Cit
Age Impacts Pulmonary Inflammation and Systemic Bone Response to Inhaled Organic Dust Exposure.	Poole, Jill A; Romberger, Debra J; Wyatt, Todd A; Staab, Elizabeth; VanDeGraaff, Joel; Thiele, Geoffrey M; Dusad, Anand; Klassen, Lynell W; Duryee, Michael J; Mikuls, Ted R; West, William W; Wang, Dong; Bailey, Kristina L	J Toxicol Environ Health A (2015)	78 / 1201-16	PubMed Cit
Alcohol exposure alters mouse lung inflammation in response to inhaled dust.	McCaskill, Michael L; Romberger, Debra J; DeVasure, Jane; Boten, Jessica; Sisson, Joseph H; Bailey, Kristina L; Poole, Jill A; Wyatt, Todd A	Nutrients (2012 Jul)	4 / 695-710	PubMed Cit
Alcohol reduces airway hyperresponsiveness (AHR) and allergic airway inflammation in mice.	Oldenburg, Peter J; Poole, Jill A; Sisson, Joseph H	Am J Physiol Lung Cell Mol Physiol (2012 Feb)	302 / L308-15	PubMed Cit
cAMP-dependent protein kinase activation decreases cytokine release in bronchial epithelial cells.	Wyatt, Todd A; Poole, Jill A; Nordgren, Tara M; DeVasure, Jane M; Heires, Art J; Bailey, Kristina L; Romberger, Debra J	Am J Physiol Lung Cell Mol Physiol (2014 Oct 15)	307 / L643-51	PubMed Cit

CD11c(+) / CD11b(+) cells are critical for organic dust-elicited murine lung inflammation.	Poole, Jill A; Gleason, Angela M; Bauer, Christopher; West, William W; Alexis, Neil; van Rooijen, Nico; Reynolds, Stephen J; Romberger, Debra J; Kielian, Tammy L	Am J Respir Cell Mol Biol (2012 Nov)	47 / 652-9	PubMed Cit
Chronic obstructive pulmonary disease patients have greater systemic responsiveness to ex vivo stimuli ...	Harting, Janel R; Gleason, Angela; Romberger, Debra J; Von Essen, Susanna G; Qiu, Fang; Alexis, Neil; Poole, Jill A	J Toxicol Environ Health A (2012)	75 / 1456-70	PubMed Cit
Co-exposure to cigarette smoke and alcohol decreases airway epithelial cell cilia beating in a prote ...	Wyatt, Todd A; Sisson, Joseph H; Allen-Gipson, Diane S; McCaskill, Michael L; Boten, Jessica A; DeVasure, Jane M; Bailey, Kristina L; Poole, Jill A	Am J Pathol (2012 Aug)	181 / 431-40	PubMed Cit
Codiagnosis of allergic bronchopulmonary aspergillosis and sarcoid in a severe asthmatic patient.	McVay, Bryan; Salmon, Geoffrey A; Poole, Jill A	Ann Allergy Asthma Immunol (2010 Dec)	105 / 495-6	PubMed Cit
Differential response of human nasal and bronchial epithelial cells upon exposure to size-fractionat ...	Hawley, Brie; Schaeffer, Joshua; Poole, Jill A; Dooley, Gregory P; Reynolds, Stephen; Volckens, John	J Toxicol Environ Health A (2015)	78 / 583-94	PubMed Cit
Dimethylarginine dimethylaminohydrolase (DDAH) overexpression attenuates agricultural organic dust e ...	Bailey, Kl; Wyatt, Ta; Wells, Sm; Klein, Eb; Robinson, Je; Romberger, Dj; Poole, Ja	J Environ Immunol Toxicol (2014 3)	2 / 72-78	PubMed Cit
Epithelial cells modulate genes associated with NF kappa B activation in co-cultured human macrophag ...	Striz, I; Brabcova, E; Kolesar, L; Liu, X D; Brabcova, I; Sekerkova, A; Poole, J A; Jaresova, M; Slavcev, A; Rennard, S I	Immunobiology (2011 Oct)	216 / 1110-6	PubMed Cit
Farm characteristics, allergy symptoms, and risk of non-hodgkin lymphoid neoplasms in the agricultur ...	Hofmann, Jonathan N; Hoppin, Jane A; Lynch, Charles F; Poole, Jill A; Purdue, Mark P; Blair, Aaron; Alavanja, Michael C; Beane Freeman, Laura E	Cancer Epidemiol Biomarkers Prev (2015 Mar)	24 / 587-94	PubMed Cit
Farming-associated environmental exposures and effect on atopic diseases.	Poole, Jill A	Ann Allergy Asthma Immunol (2012 Aug)	109 / 93-8	PubMed Cit

Immunological and inflammatory responses to organic dust in agriculture.	Poole, Jill A; Romberger, Debra J	Curr Opin Allergy Clin Immunol (2012 Apr)	12 / 126-32	PubMed Cit
Influence of farming exposure on the development of asthma and asthma-like symptoms.	Wells, Adam D; Poole, Jill A; Romberger, Debra J	Int Immunopharmacol (2014 Nov)	23 / 356-63	PubMed Cit
Maresin-1 reduces airway inflammation associated with acute and repetitive exposures to organic dust ...	Nordgren, Tara M; Bauer, Christopher D; Heires, Art J; Poole, Jill A; Wyatt, Todd A; West, William W; Romberger, Debra J	Transl Res (2015 Jul)	166 / 57-69	PubMed Cit
Maresin-1 reduces the pro-inflammatory response of bronchial epithelial cells to organic dust.	Nordgren, Tara M; Heires, Art J; Wyatt, Todd A; Poole, Jill A; LeVan, Tricia D; Cerutis, D Roselyn; Romberger, Debra J	Respir Res (2013 May 10)	14 / 51	PubMed Cit
Motile cilia harbor serum response factor as a mechanism of environment sensing and injury response ...	Nordgren, Tara M; Wyatt, Todd A; Sweeter, Jenea; Bailey, Kristina L; Poole, Jill A; Heires, Art J; Sisson, Joseph H; Romberger, Debra J	Am J Physiol Lung Cell Mol Physiol (2014 May 1)	306 / L829-39	PubMed Cit
Muramic acid, endotoxin, 3-hydroxy fatty acids, and ergosterol content explain monocyte and epitheli ...	Poole, Jill A; Dooley, Gregory P; Saito, Rena; Burrell, Angela M; Bailey, Kristina L; Romberger, Debra J; Mehaffy, John; Reynolds, Stephen J	J Toxicol Environ Health A (2010)	73 / 684-700	PubMed Cit
MyD88 in lung resident cells governs airway inflammatory and pulmonary function responses to organic ...	Poole, Jill A; Wyatt, Todd A; Romberger, Debra J; Staab, Elizabeth; Simet, Samantha; Reynolds, Stephen J; Sisson, Joseph H; Kielian, Tammy	Respir Res (2015)	16 / 111	PubMed Cit
Myeloid differentiation factor 88-dependent signaling is critical for acute organic dust-induced air ...	Bauer, Christopher; Kielian, Tammy; Wyatt, Todd A; Romberger, Debra J; West, William W; Gleason, Angela M; Poole, Jill A	Am J Respir Cell Mol Biol (2013 Jun)	48 / 781-9	PubMed Cit
Occupational agriculture organic dust exposure and its relationship to asthma and airway inflammatio ...	Wunschel, Javen; Poole, Jill A	J Asthma (2016 Jun)	53 / 471-7	PubMed Cit

Organic dust augments nucleotide-binding oligomerization domain expression via an NF- $\kappa$ B pathway ...	Poole, Jill A; Kielian, Tammy; Wyatt, Todd A; Gleason, Angela M; Stone, Jeremy; Palm, Kelsey; West, William W; Romberger, Debra J	Am J Physiol Lung Cell Mol Physiol (2011 Sep)	301 / L296-306	PubMed Cit
Organic dust, lipopolysaccharide, and peptidoglycan inhalant exposures result in bone loss/disease.	Dusad, Anand; Thiele, Geoff M; Klassen, Lynell W; Gleason, Angela M; Bauer, Christopher; Mikuls, Ted R; Duryee, Michael J; West, William W; Romberger, Debra J; Poole, Jill A	Am J Respir Cell Mol Biol (2013 Nov)	49 / 829-36	PubMed Cit
Pattern recognition scavenger receptor A/CD204 regulates airway inflammatory homeostasis following o ...	Poole, Jill A; Anderson, Leigh; Gleason, Angela M; West, William W; Romberger, Debra J; Wyatt, Todd A	J Immunotoxicol (2015 Jan-Mar)	12 / 64-73	PubMed Cit
Proteases in agricultural dust induce lung inflammation through PAR-1 and PAR-2 activation.	Romberger, Debra J; Heires, Art J; Nordgren, Tara M; Souder, Chelsea P; West, William; Liu, Xiang-de; Poole, Jill A; Toews, Myron L; Wyatt, Todd A	Am J Physiol Lung Cell Mol Physiol (2015 Aug 15)	309 / L388-99	PubMed Cit
Protein kinase C epsilon is important in modulating organic-dust-induced airway inflammation.	Poole, Jill A; Romberger, Debra J; Bauer, Chris; Gleason, Angela M; Sisson, Joseph H; Oldenburg, Peter J; West, William W; Wyatt, Todd A	Exp Lung Res (2012 Oct)	38 / 383-95	PubMed Cit
Reduced vitamin D levels in adult subjects with chronic urticaria.	Thorp, Warren Ancheta; Goldner, Whitney; Meza, Jane; Poole, Jill A	J Allergy Clin Immunol (2010 Aug)	126 / 413; author reply 413-4	PubMed Cit
Respiratory health effects of large animal farming environments.	May, Sara; Romberger, Debra J; Poole, Jill A	J Toxicol Environ Health B Crit Rev (2012)	15 / 524-41	PubMed Cit
Rhinitis associated with pesticide use among private pesticide applicators in the agricultural health ...	Slager, Rebecca E; Simpson, Sean L; Levan, Tricia D; Poole, Jill A; Sandler, Dale P; Hoppin, Jane A	J Toxicol Environ Health A (2010)	73 / 1382-93	PubMed Cit
RSV-specific anti-viral immunity is disrupted by chronic ethanol consumption.	Warren, Kristi J; Simet, Samantha M; Pavlik, Jacqueline A; DeVasure, Jane M; Sisson, Joseph H; Poole, Jill A; Wyatt, Todd A	Alcohol (2016 Sep)	55 / 35-42	PubMed Cit

Shotgun pyrosequencing metagenomic analyses of dusts from swine confinement and grain facilities.	Boissy, Robert J; Romberger, Debra J; Roughead, William A; Weissenburger-Moser, Lisa; Poole, Jill A; LeVan, Tricia D	PLoS One (2014) 9 / e95578		PubMed Cit
The omega-3 fatty acid docosahexaenoic acid attenuates organic dust-induced airway inflammation.	Nordgren, Tara M; Friemel, Taylor D; Heires, Art J; Poole, Jill A; Wyatt, Todd A; Romberger, Debra J  Poole, Jill A; Wyatt, Todd A; Kielian, Tammy; Oldenburg, Peter; Gleason, Angela M; Bauer, Ashley; Golden, Gregory; West, William W; Sisson, Joseph H; Romberger, Debra J	Nutrients (2014 Dec)	6 / 5434-52	PubMed Cit
Toll-like receptor 2 regulates organic dust-induced airway inflammation.	Staab, Elizabeth; Thiele, Geoffrey M; Clarey, Dillon; Wyatt, Todd A; Romberger, Debra J; Wells, Adam D; Dusad, Anand; Wang, Dong; Klassen, Lynell W; Mikuls, Ted R; Duryee, Michael J; Poole, Jill A	Am J Respir Cell Mol Biol (2011 Oct)	45 / 711-9	PubMed Cit
Toll-Like Receptor 4 Signaling Pathway Mediates Inhalant Organic Dust-Induced Bone Loss.	Staab, Elizabeth; Thiele, Geoffrey M; Clarey, Dillon; Wyatt, Todd A; Romberger, Debra J; Wells, Adam D; Dusad, Anand; Wang, Dong; Klassen, Lynell W; Mikuls, Ted R; Duryee, Michael J; Poole, Jill A	PLoS One ()	11 / e0158735	PubMed Cit
Treatment with the C5a receptor/CD88 antagonist PMX205 reduces inflammation in a murine model of all ...	Staab, Elizabeth B; Sanderson, Sam D; Wells, Sandra M; Poole, Jill A	Int Immunopharmacol	21 / 293-300	PubMed Cit
Vitamin D supplementation protects against bone loss following inhalant organic dust and lipopolysac ...	Dusad, Anand; Thiele, Geoffrey M; Klassen, Lynell W; Wang, Dong; Duryee, Michael J; Mikuls, Ted R; Staab, Elizabeth B; Wyatt, Todd A; West, William W; Reynolds, Stephen J; Romberger, Debra J; Poole, Jill A	Immunol Res	62 / 46-59	PubMed Cit
Vitamin D treatment modulates organic dust-induced cellular and airway inflammatory consequences.	Golden, Gregory A; Wyatt, Todd A; Romberger, Debra J; Reiff, Daniel; McCaskill, Michael; Bauer, Christopher; Gleason, Angela M; Poole, Jill A	J Biochem Mol Toxicol	27 / 77-86	PubMed Cit

$\beta$ 2-Adrenergic agonists attenuate organic dust-induced lung inflammation.

Romberger, Debra J; Am J Physiol  
Heires, Art J; Nordgren, Lung Cell Mol  
Tara M; Poole, Jill A; Physiol (2016 Jul  
Toews, Myron L; West, 1)  
William W; Wyatt,  
Todd A

311 /  
L101-10

PubMed Ctr